

1. (Original) A refrigerant composition consisting essentially of a combination of a hydrofluorocarbon component consisting of a combination selected from the following mixtures:

- (1) R134a and R125;
- (2) R134a, R125 and R143a
- (3) R125 and R143a
- (4) R134a, R227ea and R125

and a hydrocarbon component consisting essentially of a combination selected from the following mixtures:

- (5) isopentane and butane
- (6) isopentane, butane and isopentane
- (7) butane and isobutane.

2. (Original) A composition as claimed in claim 1 consisting of a mixture of one of hydrofluorocarbon components (1) to (4) and one of hydrocarbon components (5) to (7).

3. (Currently Amended) A composition as claimed in claim 1 or 2 wherein the hydrocarbon is present in an amount of 0.6 to 4% and wherein the composition is non-flammable when completely in the vapour phase.

4. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon is present in an amount of 0.6 to 4% and wherein when the composition is in a container with both vapour and liquid present, neither vapour nor liquid phase is flammable.

5. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon is present in an amount of 0.6 to 4% and wherein at any time during a leak from a vapour space in a container neither the liquid phase nor the vapour phase is flammable.

6. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon is present in amount of 0.6 to 4% and wherein at any time during a leak

from a liquid space in a container neither the liquid phase nor vapour phase is flammable.

7. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon is present in an amount of 0.6 to 4% and wherein the proportion of hydrocarbon to hydrofluorocarbon in the vapour phase does not differ from the equivalent proportion in the liquid phase by more than 40% at equilibrium at 25°C.
8. (Original) A composition as claimed in claim 7 wherein the proportion does not differ by more than 30%.
9. (Original) A composition was claimed in claim 8 wherein the composition does not differ by more than 20%.
10. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon is present in an amount of 0.6 to 4% and wherein the proportion of hydrocarbon to hydrofluorocarbon in the vapour phase does not differ from the formulated composition by more than 40% at equilibrium at 25°C.
11. (Original) A composition as claimed in claim 10 wherein the proportion does not differ by more than 30%.
12. (Original) A composition as claimed in claim 11 wherein the proportion does not differ by more than 20%.
13. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein during a leak from the vapour space or liquid space a container, the proportion of hydrocarbon to hydrofluorocarbon in either of the vapour phase or liquid phase does not differ from the formulated composition by more than 40% at equilibrium at 25°C.
14. (Original) A composition as claimed in claim 13 wherein the proportion does not differ by more than 40%.
15. (Original) A composition as claimed in claim 14 wherein the proportion does not differ by more than 20%.

16. (Currently Amended) A composition as claimed in ~~any preceding~~ claim 1 wherein the hydrocarbon component consists of a mixture of isopentane, butane and isobutene.
17. (Original) A composition was claimed in claim 16 wherein the amount of isopentane is 0.6 to 2%.
18. (Original) A composition as claimed in claim 17 wherein the amount of isopentane is 0.6 to 1%.
19. (Currently Amended) A composition as claimed in ~~any of~~ claims 16 ~~to 18~~ wherein the amount of butane is 0.6 to 5%.
20. (Original) A composition as claimed in claim 19 wherein the amount of butane is 0.6 to 3%.
21. (Original) A composition as claimed in claim 20 wherein the amount of butane is 0.6 to 2%.
22. (Currently Amended) A composition was claimed in ~~any of~~ claims 16 ~~to 21~~ wherein the amount of butane is 0.6 to 5%.
23. (Original) A composition as claimed in claim 22 wherein the amount of butane is 0.6 to 2%.
24. (Original) A composition as claimed in claim 23 wherein the amount of butane is 0.6 to 1%.
25. (Currently Amended) A composition ~~was~~ as claimed in ~~any of claims~~ claim 1 to 15 wherein the hydrocarbon component consists of a mixture if isopentane and butane.
26. (Original) A composition as claimed in claim 25 wherein the amount of isopentane is 0.6 to 1%.

27. (Currently Amended) A composition as claimed in claims 25 ~~or 26~~ wherein the amount of butane is 1.3 to 2.5%.

28. (Original) A composition as claimed in claim 27 wherein the amount of butane is about 1.4%.

29. (Currently Amended) A composition as claimed in ~~any of claims 1 to 15~~ wherein the hydrocarbon component consists of butane and isobutane.

30. (Original) A composition as claimed in claim 29 wherein the amount of butane is 0.6 to 5%.

31. (Currently Amended) A composition as claimed in claim 29 ~~or 30~~ wherein the amount of isobutane is 0.6 to 5%.

32. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	93.1 to 81.5%
R125	5 – 15%
isopentane	0.6 to 1%
butane	1.3 to 2.5 %

33. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	83%
R125	5%
isopentane	0.6%
butane	1.4%

34. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	93.2 to 80%
R125	5 to 15%
isopentane	0.6 to 1%

butane	0.6 to 3%
isobutane	0.6 to 1%

35. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	93%
R125	5%
isopentane	0.6%
butane	0.8%
isobutane	0.6%

36. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	53.2 to 39%
R125	45 to 55%
isopentane	0.6 to 1%
butane	0.63%
isobutane	0.62%

37. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	47.5%
R125	50%
isopentane	0.6%
butane	1%
isobutane	0.9%

38. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	10 to 30%
R125	80 to 40%
R143a	10 to 30%
isopentane	0.6 to 2%

butane	0.6 to 5%
isobutane	0.6 to 5%

39. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	16.5%
R125	60%
R143a	21%
isopentane	0.6%
butane	0.9%
isobutane	1%

40. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R125	75 to 55%
R143a	25 to 45%
butane	0.6 to 5%

41. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R125	60.5%
R143a	37%
Butane	1.7%
isobutane	1.5%

42. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R125	60.5%
R143a	37%
butane	0.9%
isobutene	1%
isopentane	0.6%

43. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	58.2 to 36%
R227ea	35 to 50%
R125	5 to 8%
isopentane	0.6 to 2%
butane	0.6 to 2%
isobutane	0.6 to 2%

44. (Currently Amended) A refrigerant composition as claimed in ~~any of claims 1-13~~ claim 1 consisting essentially of:

R134a	51%
R227ea	41%
R125	6%
isopentane	0.6%
butane	0.8%
isobutane	0.6%